

Food and Nutritional Components in Focus



Authoritative series from the RSC

In the past three decades there have been major advances in our understanding of the chemistry and function of nutritional components. This has been enhanced by rapid developments in analytical techniques and instrumentation. Chemists, food scientists and nutritionists are however separated by divergent skills, and professional disciplines. Hitherto this transdisciplinary divide has been difficult to bridge. This series Food and Nutritional Components in Focus covers in a single volume the chemistry, analysis, function and effects of single components in the diet or its food matrix. Its aim is to bridge scientific disciplines so that information becomes more meaningful and applicable to health in general.

Editor-in-Chief:

Victor R Preedy, King's College London, UK

Key Features

- A comprehensive insight into food science bridging the gap between chemistry and the function of nutritional components
- Covers numerous classes including for example, minerals, vitamins and food additives
- Designed for chemists, analytical scientists, forensic scientists, food scientists, dieticians and health care workers, nutritionists, toxicologists and research academics
- Also suitable for lecturers and teachers in food and nutritional sciences and will also be suitable for college or university libraries as a reference guide

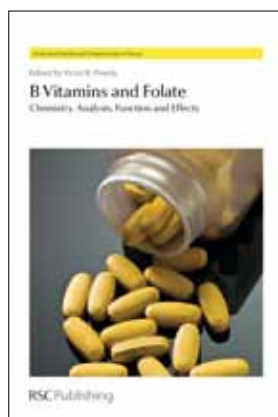


Food Science Journals Portfolio

- Food & Function
- Soft Matter
- Integrative Biology
- MedChemComm

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Series ISSN: 2045-1695

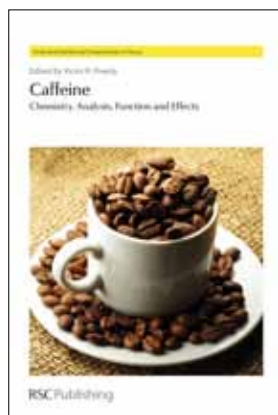


B Vitamins and Folate

Edited by Victor R Preedy, King's College London, UK

B Vitamins and Folate covers thiamine, riboflavin, pantothenic acid, pyridoxine, biotin, cobalamin and folate. The book begins with an overview covering the historical context of B vitamins, disease and fortification effects. Coverage then includes chemistry, biochemistry and metabolism across the vitamins and related compounds; analysis including spectrofluorimetry, isotope dilution mass spectrometry, chromatography; and finishes with the functional effects in humans including in strokes, epilepsy, dementia and kidney disease. Written by an expert team, this book provides a fascinating insight for those with an interest in the health and nutritional sciences.

Hardback | 875 pages | ISBN 9781849733694 | 2012 | £153.99



Caffeine

Edited by Victor R Preedy, King's College London, UK

Caffeine covers the latest knowledge in a uniquely structured format and is specifically designed to link chemistry with health and nutrition to provide a broad, appealing book. Coverage begins with caffeine in relation to nutrition focussing on beverages, then concentrates on chemistry, crystal structures of complexes in caffeine and biochemistry. In the analysis chapters, assays are conducted by LC-MS, capillary electrophoresis, automated flow methods and immunoassay methods. The effects of caffeine on the brain, cognitive performance, sleep, oxidative damage, exercise and pulmonary function are all considered in the closing section of the book.

Hardback | 442 pages | ISBN 9781849733670 | 2012 | £153.99

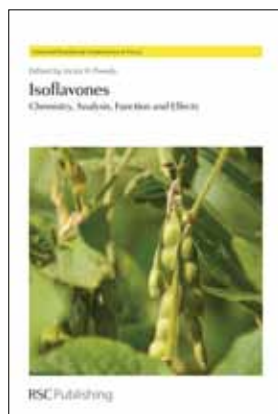


Dietary Sugars

Edited by Victor R Preedy, King's College London, UK

Dietary sugars are known to have medical implications for humans from causing dental caries to obesity. This book aims to put dietary sugars in context and includes the chemistry of several typical subclasses eg glucose, galactose and maltose. Modern techniques of analysis of the dietary sugars are covered in detail including self-monitoring and uses of biosensors. The final section of the book details the function and effects of dietary sugars and includes chapters on obesity, intestinal transport, aging, liver function, diet of young children and intolerance and more. A must have for the bookshelf of anyone with an interest in diet and nutritional health.

Hardback | 936 pages | ISBN 9781849733700 | 2012 | £153.99

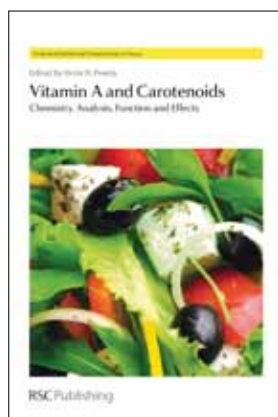


Isoflavones

Edited by Victor R Preedy, King's College London, UK

Isoflavones remain the subject of many scientific studies most of which reveal them to have some health benefits. Coverage within this book begins with an overview of phytoestrogens in health and plants with specific reference to isoflavones, how isoflavones are found in the diet and novel compounds in nuts. Expert accounts of the chemical and biochemical research on this topic are provided followed by analytical and bioanalytical assessments. Rounding up the book are the chapters on function and effects of isoflavones which provide details on isoflavones in beverages, soy and soy products and other food delivery systems and how their function effects the thyroid, menopause, prostate, breast, bone and cardiovascular disease to name but a few. This extensive and detailed book will appeal across the disciplines providing a snapshot of this fascinating subject.

Hardback | 500 pages | ISBN 9781849734196 | 2012 | £153.99



Vitamin A and Carotenoids

Edited by Victor R Preedy, King's College London, UK

Vitamin A has an important role to play in vision, bone growth, reproduction, cell division, and cell differentiation. With the focus on Vitamin A and Carotenoids, this book includes the latest research in these areas and starts with an overview putting the compounds in context with other vitamins, supplementation and discussing the importance of beta-carotene. Details of the chemistry, structure and biochemistry of the group begins with nomenclature followed by information on encapsulation, thermal degradation and occurrence. Analytical and bioanalytical techniques of these compounds are covered in detail in plant, milk and human tissue systems. Finally, the book covers the extensive functions and effects of Vitamin A on eg developmental growth, immune function, cancer risk, the brain and lungs as well as vision. Delivering high quality information, this book will be of benefit to anyone researching this area of health and nutritional science.

Hardback | 608 pages | ISBN 9781849733687 | 2012 | £153.99

Forthcoming titles

Calcium

Edited by Victor R Preedy, King's College London, UK

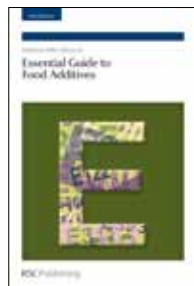
Hardback | 480 pages | ISBN 9781849738873 | 2014 | £175.00

Fluoride

Edited by Victor R Preedy, King's College London, UK

Hardback | 400 pages | ISBN 9781849738880 | 2014 | £165.00

Also of interest



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Mike Saltmarsh

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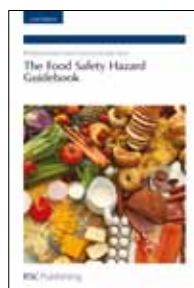
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Apostolos Spyros, Photis Dais

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Chris Clarke

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Pulse Chemistry and Technology

Brijesh Tiwari, Narpinder Singh

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Also of interest

McCance and Widdowson's The Composition of Foods

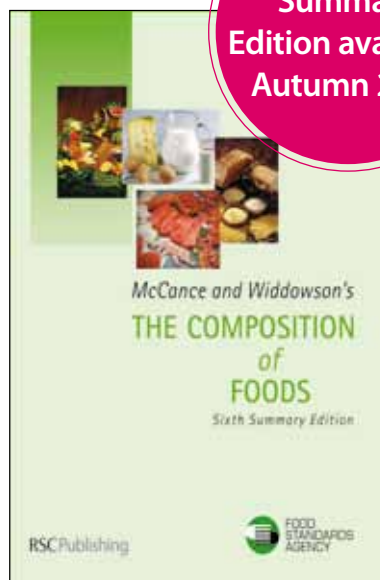


Seventh Summary Edition

McCance and Widdowson's The Composition of Foods, Seventh Summary Edition provides a timely, authoritative and comprehensive update of the nutrient data for the most commonly consumed foods in the UK. Foods that are less commonly consumed but are important in the diets of sub-groups of the population are also included. This Seventh Summary Edition contains data which has been extensively revised and updated since the last edition was published in 2002 and incorporates data from previously published supplements plus new analytical data and additional data from manufacturers. Aimed at students and professionals in all food and health disciplines, this essential handbook should be on the bookshelf of everyone who needs to know the nutritional value of foods consumed in the UK.

Paperback | 550 pages | ISBN 9781849736367 | 2013 | £49.50

Seventh
Summary
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*Lew P. Christopher, South Dakota School of Mines and Technology, USA
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